



## Workshop on Mouse Colony Management

VIRTUAL | August 19th-21st, 2025

Tuesday, August 19<sup>th</sup>, 2025

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- 8:00 am      **Welcome**  
Leanne Miceli, A.S., The Jackson Laboratory
- 8:15 am      **Mouse Genetics and Strain Nomenclature**  
Crystal Davis M.S., The Jackson Laboratory
- 9:30 am      Break
- 10:00 am     **Colony Set-up and Breeding Strategies**  
Jason Beckwith, M.S., The Jackson Laboratory
- 12:00 pm     Break
- 1:00 pm      **Genetic Background Effects on Phenotype**  
Greg Cox, Ph.D., The Jackson Laboratory
- 2:00 pm      **Tools for Analyzing Colony Data**  
Vivek Philip, Ph.D., The Jackson Laboratory
- 3:00 pm      Break
- 3:15 pm      **Mouse Genome Informatics and Other Resources**  
David Shaw, M.S., The Jackson Laboratory  
(Problem set will be available in Canvas. Participants will need to provide their own laptop to work through problem set with instructors during this session or at your leisure.)

Wednesday, August 20<sup>th</sup>, 2025

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- 8:00 am      **Practical Guidelines for Maintaining Mouse Health**  
Amine Alioua, PhD, The Jackson Laboratory
- 8:45 am      Break
- 9:00 am      **Maintaining Severely Immune Compromised Mice**  
Amine Alioua, PhD, The Jackson Laboratory
- 9:30 am      **Eliminating Infectious Contaminants**  
Amine Alioua, PhD, The Jackson Laboratory
- 10:15 am     Break
- 10:30 am     **Cryopreservation: A Cool Approach to Colony Management**  
Bree Means M.S., The Jackson Laboratory

- 11:15 am **Using Assisted Reproductive Technologies (ARTs) to Rederive, Rescue, and Rapidly Expand Colonies**  
Bree Means M.S., The Jackson Laboratory
- 12:00 pm Break
- 1:00 pm **Nutritional Aspects of Maintaining Animal Health and Phenotype**  
Melanie Hoar, PMI Nutrition International
- 2:00 pm Break
- 2:15 pm **Genetic Quality Control**  
Jason Beckwith, M.S., The Jackson Laboratory
- 3:00 pm **The Microbiome**  
Karen Svenson, Ph.D., The Jackson Laboratory

Thursday, August 21<sup>st</sup>, 2025

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- 8:30 am **Behavioral Phenotyping Using Computer Vision Systems**  
Vivek Kumar, The Jackson Laboratory
- 9:30 am Break
- 10:00 am **Technologies & Repositories: PDX, CRISPR-Cas, KOMP, T1D, & JAX Mice**  
Peter Kelmenson, BA, The Jackson Laboratory
- 11:30 am Break
- 12:30 pm **The Importance of Biomethods Training in Enhancing Animal Welfare and Mitigating Confounding Research Variables**  
Jessica Wong, DVM, PhD, DACVP, The Jackson Laboratory
- 1:00 pm **How to Prepare and Submit Samples for Diagnostic Pathology**  
Jessica Wong, DVM, PhD, DACVP, The Jackson Laboratory
- 1:30 pm Break
- 1:45 pm **Breeding Efficiency Using Electronic Tracking**  
TBD, TransnetYX
- 2:45 pm End